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| APPLICATION NO.   | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|---|-------------|----------------------|---------------------|------------------|
| 10/802,993  | 03/16/2004  | Will A. Miller       | CRED 2620           | 4379             |
| 7812  | 7590        | 02/01/2005           | EXAMINER            |                  |
| SMITH-HILL AND BEDELL<br>12670 N W BARNES ROAD<br>SUITE 104<br>PORTLAND, OR 97229 |             |                      | GUSHI, ROSS N       |                  |
|   |             |                      | ART UNIT            | PAPER NUMBER     |
|   |             |                      | 2833                |                  |

DATE MAILED: 02/01/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

# Office Action Summary

Application No.

10/802,993

Applicant(s)

MILLER ET AL.

Examiner

Ross N. Gushi

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

## Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

## Status

- 1) ☐ Responsive to communication(s) filed on \_\_\_\_.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

## Disposition of Claims

- 4) ☒ Claim(s) 1-14 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 9-14 is/are allowed.
- 6) ☒ Claim(s) 1,4,6 is/are rejected.
- 7) ☒ Claim(s) 2,3,5,7,8 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_ are subject to restriction and/or election requirement.

## Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 3/16/04 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

## Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

## Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_.
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date \_\_\_\_.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_.

## DETAILED ACTION

### *Claim Rejections - 35 USC § 103*

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1, 4, and 6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Feldman et al. ("Feldman") in view of McAllister et al. ("McAllister"). Per claims 1, 4, and 6 Feldman discloses an interconnection structure including a positioning member (220, 222) having a main face and formed with a passage that opens at said main face, a coaxial cable 212 having an inner conductor, an outer conductor, and dielectric material between the inner conductor and the outer conductor, wherein the coaxial cable has an end segment that is fitted in the passage in the positioning member and the positioning member is so positioned relative to a dielectric substrate (not shown) that an end face of the inner conductor is presented towards the first conductive element, and a discrete resilient contact element 310 interposed between the end face of the inner conductor and the first conductive element and in electrically-conductive pressure contact with both the inner conductor and a first conductive element. To the extent that Feldman does not explicitly show the dielectric substrate having a first conductive element on a main face thereof, McAllister discloses a similar assembly including the dielectric substrate 12 having a first conductive element on a main face thereof. At the time of the invention, it would have been obvious to use the Feldman

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device with a substrate as taught in McAllister. The suggestion or motivation for doing so would have been to operate the device as intended and to facilitate the operation of test equipment as taught in Feldman and McAllister.

***Allowable Subject Matter***

Claims 2, 3, 5, 7, and 8 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter: Regarding claim 2, the prior art does not suggest the structure as claimed, including the combination of all the claimed elements, the combination including the second discrete resilient contact element interposed between the main face of the positioning member and the second conductive element and in electrically conductive pressure contact with both the positioning member and the second conductive element.

Regarding claims 3, 5, the prior art does not suggest the structure as claimed, including the combination of all the claimed elements, the combination including that the coaxial cable is an air dielectric coaxial cable.

Regarding claims 7, the prior art does not suggest the structure as claimed, including the combination of all the claimed elements, the combination including the rectangular arrays as claimed.

Claims 9-14 are allowed. Regarding claim 9, the prior art does not suggest the structure as claimed, including the combination of all the claimed elements, the combination including the electrically conductive positioning member including the

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plurality of passages and the cable with inner conductors substantially flush with the main face as claimed. Regarding claim 14, the prior art does not suggest the structure as claimed, including the combination of all the claimed elements, the combination including the first and second positioning members including the plurality of passages, the first and second plurality of conductors having end segments substantially flush with the main faces as claimed, and the plurality of discrete contact elements each in pressure contact with one conductor of the first and second pluralities as claimed.

### ***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ross Gushi whose telephone number is (571) 272-2005. If attempts to reach the examiner by phone are unsuccessful, the examiner's supervisor, Paula A. Bradley, can be reached at 571-272-2800 extension 33. The phone number for the Group's facsimile is (703) 872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

  
ROSS GUSHI  
PRIMARY EXAMINER